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1   Performance issues and error analysis in an open-domain question answering system   88%
Dan Moldovan , Marius Paşca , Sanda Harabagiu , Mihai Surdeanu
ACM Transactions on Information Systems (TOIS) April 2003
Volume 21 Issue 2
> This paper presents an in-depth analysis of a state-of-the-art Question Answering system. Several scenarios are examined: (1) the performance of each module in a serial baseline system, (2) the impact of feedbacks and the insertion of a logic prover, and (3) the impact of various retrieval strategies and lexical resources. The main conclusion is that the overall performance depends on the depth of natural language processing resources and the tools used for answer finding.

2   Knowledge and natural language processing   85%
Jim Barnett , Kevin Knight , Inderjeet Mani , Elaine Rich
Communications of the ACM August 1990
Volume 33 Issue 8
> KBNL is a knowledge-based natural language processing system that is novel in several ways, including the clean separation it enforces between linguistic knowledge and world knowledge, and its use of knowledge to aid in lexical acquisition. Applications of KBNL include intelligent interfaces, text retrieval, and machine translation.

3   Natural-language retrieval of images based on descriptive captions   82%
Eugene J. Guglielmo , Neil C. Rowe
ACM Transacti ns n Inf rmati n Systems (TOIS) July 1996
Volume 14 Issue 3
> We describe a prototype intelligent information retrieval system that uses natural-language understanding to efficiently locate captioned data. Multimedia data generally

require captions to explain their features and significance. Such descriptive captions often rely on long nominal compounds (strings of consecutive nouns) which create problems of disambiguating word sence. In our system, captions and user queries are parsed and interpreted to produce a logical form using a detailed theory ...

4 Qusetion answering: Structured use of external knowledge for event-based open domain question answering   80%
Hui Yang , Tat-Seng Chua , Shuguang Wang , Chun-Keat Koh
Proceedings of the 26th annual international ACM SIGIR conference on Research and development in informaion retrieval July 2003
One of the major problems in question answering (QA) is that the queries are either too brief or often do not contain most relevant terms in the target corpus. In order to overcome this problem, our earlier work integrates external knowledge extracted from the Web and WordNet to perform Event-based QA on the TREC-11 task. This paper extends our approach to perform event-based QA by uncovering the structure within the external knowledge. The knowledge structure loosely models different facets of ...

5 Logic and Databases: A Deductive Approach   80%
Herve Gallaire , Jack Minker , Jean-Marie Nicolas
ACM Computing Surveys (CSUR) June 1984
Volume 16 Issue 2

6 A logic-based foundation of discrete event modeling and simulation   80%
Ashvin Radiya , Robert G. Sargent
ACM Transactions on Modeling and Computer Simulation (TOMACS) January 1994
Volume 4 Issue 1
A logic-based foundation of discrete event modeling and simulation is presented by defining (1) its fundamental concepts and terms from a perspective commonly held by logicians, (2) a modal Discrete Event Logic LDE. The ways of expressing models using LDE are discussed and compared with the ways of expressing models in simulation languages that support the event scheduling world view. The logic-based foundation prov ...

7 Presentation   77%
Proceedings of the 1980 workshop on Data abstraction, databases and conceptual modeling June 1980
Volume 11 , , 16 Issue 2 , 74 , 1
Presentation is intended to encompass notations and languages for expressing models. This session will focus on the linguistic and notational choices made in particular approaches. Emphasis will be placed on common ideas. For example, there have been some assertions from proponents of the predicate calculus that it is a notation that is capable of expressing essentially all the interesting and important concepts that are encountered in other notations. Emphasis will also be placed on why th ...

8 Nial: A candidate language for fifth generation computer systems   77%
C. D. McCrosky , J. J. Glasgow , M. A. Jenkins
Proceedings of the 1984 annual conference of the ACM on The fifth generation challenge January 1984
The anticipated fifth generation of computing systems presents many challenges. One of the more important is the challenge of designing languages suitable for describing the parallel computations which these systems will achieve. The new systems will outpace the expressive power of most existing languages. As the hardware

components and AI techniques are developed to achieve the fifth generation, so must appropriate languages be created. Another view of the fifth generation is th ...

9 A word-based approach for modeling and discovering temporal relations   77%
embedded in Chinese sentences
Wenjie Li , Kam-Fai Wong
ACM Transactions on Asian Language Information Processing (TALIP) September 2002
Volume 1 Issue 3
Conventional information extraction systems cannot effectively mine temporal information. For example, users' queries on how one event is related to another in time could not be handled effectively. For this reason, it is important to capture and deduce temporal knowledge associated with the relevant events. It is generally acknowledged that information extraction cannot be isolated from natural language processing. As Chinese has no tenses, conventional means for finding temporal references bas ...

10 A proposal for introducing model checking into an undergraduate   77%
software engineering curriculum
Hong Liu , David P. Gluch
The Journal of Computing in Small Colleges December 2002
Volume 18 Issue 2
Model checking is a new pragmatic technology in formal methods. This paper presents a rationale and proposal for introducing model checking into an undergraduate software engineering curriculum. Supported by experiences in teaching model checking in a graduate program, we discuss a specific course design and solutions to potential problems in its implementation.

11 A look back and a look forward   77%
K. Sparck Jones
Proceedings of the 11th annual international ACM SIGIR conference on Research and development in information retrieval May 1988
This paper is in two parts, following the suggestion that I first comment on my own past experience in information retrieval, and then present my views on the present and future.

12 Unification: a multidisciplinary survey   77%
Kevin Knight
ACM Computing Surveys (CSUR) March 1989
Volume 21 Issue 1
The unification problem and several variants are presented. Various algorithms and data structures are discussed. Research on unification arising in several areas of computer science is surveyed; these areas include theorem proving, logic programming, and natural language processing. Sections of the paper include examples that highlight particular uses of unification and the special problems encountered. Other topics covered are resolution, higher order logic, the occur check, infinite term ...

13 Session 8: A transportable natural language database update system   77%
Sharon Salveter
Pr ceedings f the 3rd ACM SIGACT-SIGMOD symp sium n Principles f database systems April 1984

14 Software architectures: Evaluating software architectures by coloured   77%
petri nets
Kimiyuki Fukuzawa , Motoshi Saeki
Pr ceedings f the 14th internati nal c nference n S ftware engineering and knowledge engineering July 2002
> The quality of an architectural design of a software system has a great influence on achieving non-functional requirements to the system. In this paper, we present a technique for describing behavioral aspects of software architectures formally based on Coloured Petri Nets (CPNs) and a technique for evaluating their non-functional qualities by analyzing CPNs with a supporting tool. We provide quality models for evaluating security, efficiency and reliability, and integrate them with CPN descript ...

15 Scaling question answering to the web   77%
Cody Kwok , Oren Etzioni , Daniel S. Weld
ACM Transactions on Information Systems (TOIS) July 2001
Volume 19 Issue 3
> The wealth of information on the web makes it an attractive resource for seeking quick answers to simple, factual questions such as "e;who was the first American in space?"e; or "e;what is the second tallest mountain in the world?"e; Yet today's most advanced web search services (e.g., Google and AskJeeves) make it surprisingly tedious to locate answers to such questions. In this paper, we extend question-answering techniques, first studied in the information retrieval literature ...

16 Conceptual retrieval and case law   77%
J. P. Dick
Proceedings of the first international conference on Artificial intelligence and law
December 1987

17 A natural language based legal expert system for consultation and   77%
tutoring—the LEX project
F. Haft , R. P. Jones , Th. Wetter
Proceedings of the first international conference on Artificial intelligence and law
December 1987
> The LEX (Legal Expert System) project is one of the European based projects investigating legal expert systems from both a professional and a teaching perspective. The project is a cooperative project between the University of Tübingen and IBM Germany and developed out of research into a User Specialty Language system (USL) for natural language queries to a relational data base. The LEX system has as its main components a Natural Language Analyzer for analysis and logic representation ...

18 Scaling question answering to the Web   77%
Cody C. T. Kwok , Oren Etzioni , Daniel S. Weld
Proceedings of the tenth international conference on World Wide Web April 2001

19 Answering English questions by computer: a survey   77%
R. F. Simmons
C mmunicati ns f the ACM January 1965
Volume 8 Issue 1

20 Mapping communicative goals into conceptual tasks to generate   77%
graphics in discourse
Stephan Kerpedjiev , Steven F. Roth
Proceedings f the 5th internati nal conference n Intelligent user interfaces
January 2000
> We address the problem of realizing communicative plans in graphics. Our approach
> calls for mapping communicative goals to conceptual tasks and then using task-based
> graphic design for selecting graphical techniques. In this paper, we present the
> mapping rules in several dimensions: data aggregation and selection, task synthesis,
> and task aggregation. Those rules have been incorporated in AutoBrief, a research
> system for multimedia explanation.

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